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The varying permanent magnetic field by angle and distance for spin Seebeck effect measurement

The conversion of heat to spin current is well known as spin Seebeck effect (SSE). In this study, we constructed the cost-effective instrument for measuring SSE by varying permanent magnetic field with angle and distance. The magnetic field strength and temperature gradient were also performed. We measured the spin Seebeck effect, anomalous Nernst effect, spin Hall effect and anisotropic magnetoresistance and then we compared the results with the commercial instrument (PPMS@TMVeraLab). The results show that our instrument can be used to measure these phenomena

Primary authors: Mr WONGDAENG, Punthawat (Division of Physics, Faculty of Science and Technology, Thammasat University, Pathum Thani 12120, Thailand); Mr WRRARADCHAIPANA, Peerawat (Division of Physics, Faculty of Science and Technology, Thammasat University, Pathum Thani 12120, Thailand); Mr WONGDAENG, Punthawat (Division of Physics, Faculty of Science and Technology, Thammasat University, Pathum Thani 12120, Thailand); WONGJOM, poramed

Presenter: Mr WONGDAENG, Punthawat (Division of Physics, Faculty of Science and Technology, Thammasat University, Pathum Thani 12120, Thailand)

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